

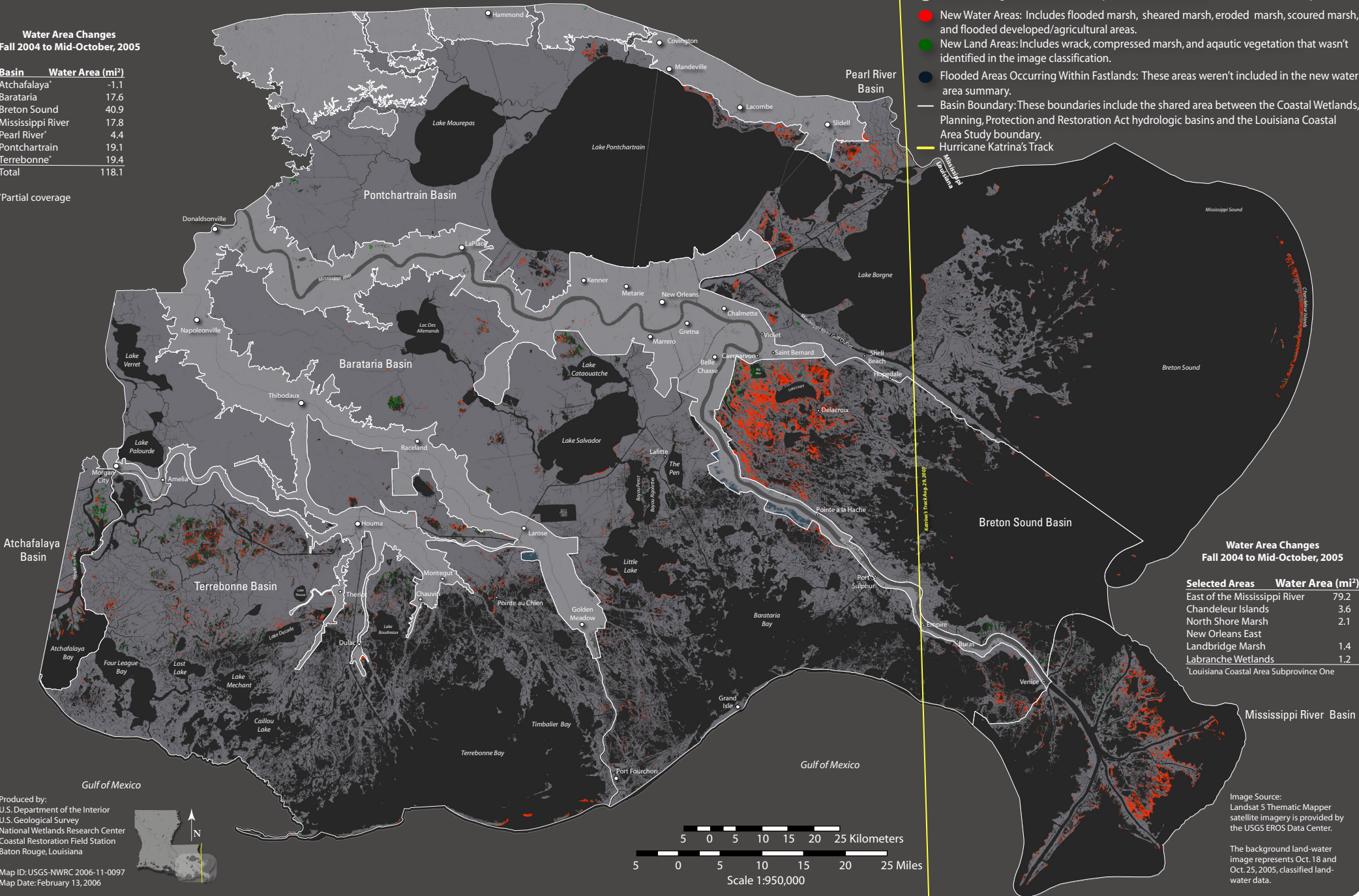
# Water Area Changes in Southeastern Louisiana After Hurricanes Katrina and Rita Detected with Landsat Thematic Mapper Satellite Imagery

## Water Area Changes Fall 2004 to Mid-October, 2005

Basin	Water Area (mi <sup>2</sup> )
Atchafalaya*	-1.1
Barataria	17.6
Breton Sound	40.9
Mississippi River	17.8
Pearl River*	4.4
Pontchartrain	19.1
Terrebonne*	19.4
Total	118.1

\*Partial coverage

- Fastlands: Agricultural and developed areas excluded from the water area analysis.
- New Water Areas: Includes flooded marsh, sheared marsh, eroded marsh, scoured marsh, and flooded developed/agricultural areas.
- New Land Areas: Includes wrack, compressed marsh, and aquatic vegetation that wasn't identified in the image classification.
- Flooded Areas Occurring Within Fastlands: These areas weren't included in the new water area summary.
- Basin Boundary: These boundaries include the shared area between the Coastal Wetlands, Planning, Protection and Restoration Act hydrologic basins and the Louisiana Coastal Area Study boundary.
- Hurricane Katrina's Track



## Water Area Changes Fall 2004 to Mid-October, 2005

Selected Areas	Water Area (mi <sup>2</sup> )
East of the Mississippi River	79.2
Chandeleur Islands	3.6
North Shore Marsh	2.1
New Orleans East	
Landbridge Marsh	1.4
Labranche Wetlands	1.2
*Louisiana Coastal Area Subprovince One	

Image Source:  
Landsat 5 Thematic Mapper  
satellite imagery is provided by  
the USGS EROS Data Center.

The background land-water  
image represents Oct. 18 and  
Oct. 25, 2005, classified land-  
water data.

Produced by:  
U.S. Department of the Interior  
U.S. Geological Survey  
National Wetlands Research Center  
Coastal Restoration Field Station  
Baton Rouge, Louisiana

Map ID: USGS-NWRC 2006-11-0097  
Map Date: February 13, 2006